

Shoujian Zang¹, Liqian Qin¹, Zhennan Zhao¹, Jing Zhang¹, Wenhui Zou¹, Dongjiao Wang¹, Aoyin Feng¹, Shaolin Yang^{1,2}, Youxiong Que^{1,3,*} and Yachun Su^{1,3,*}

ATGGAGCGCGTCTGCTCCATCAGCTTTGGCTGGTCTGCTGACCTGTCCAAAGCGCTCCAGCCCTGTTCCGTCGGCATGCGCCGCCGG
 1 M E P S S S I T F A S S S S Y L S N G S S P C S V A M P P P
 GGGCGCCCGCAGGCTCTCTCCCTTGGCTGCCGGCAGTTATGGGTGGTGGATCGCTGCCGAGGAGCGGAAGCAGCGTGAGGCGGTG
 31 G P P Q A P P L A G E A L W G G V A A A S G S S V E A V
 AGCCTGAACCGCTCAGCAAGAACCTCGAGCGGTCTCTCGACCCGACCTAGACTGCAGCGACGCGAGCTCGAGGTGCCGACGGC
 61 S L N R L S K N L E R L L L D P D L D C S D A D V E V P D G
 GGGCGCCCGTACCATTCACCGCTGCATACTTGCCTGCCGAGCGACTTCTTCTACGACTCTTTCGCGCGCGCGGCGCGGTGGGGCA
 91 G P P V P I H R C I L A A R S D F F Y D L F A A R G R G A
 GCGCGCGTGATGCGACCGCGCGCGGAGGAGCGAGCGGGCTCGCAGTGAAGGAGCGCGGTACAAGATGGAGGAGCTCGTCCCG
 121 A R G D A T A G A G G A A E G A A S G R P R Y K M E E L V P
 GGGGTGCGCTGGGGCGGAGGGCTTCCAGGGCTTCTGGGTACATGTACACCGCAAGCTTCGGCGCTCACCGGTGAGCTGGTCTCT
 151 G R V R G R E A F Q A F L G Y M Y T G K L R P S P V D V V S
 TGTGCTGACCCAGTGTGTCCTCAGATTTGCTGCCCGCGGCACATCAGCTCGCGGTGAGCTCATGTACGCGGGGTGACTCTCAAGATC
 181 C A D P V C P H D S C P P A I R S A V E L M Y A A C T F K I
 CCGGAGCTCACTCGCTTCCAGCGCGGGCTTCTTAACCTTGTAGACAAGACTCTAGTGGAGAGTCACTTCTATTTTGAAGATTGCT
 211 P E L T S L F Q R R L L N F V D K T L V E D V I P I L K V A
 TCCCACTCAGGCGTGACTCAAGTATTGACCAATGATTCAAAGGATTGCTAGATCAGATCTTGAAGATATCTTGGATAAGGAGCTC
 241 S H S G L T Q V I D K C I Q R I A R S D L D D I S L D K E L
 CCTCAGAAGCTGTGTAGGAGATAAAAAATTTGGCAAGAAGTCAACACTGCTGATGGTGATGGCGATGGCTTATTTCGAGCCCTGTG
 271 P P E A V E E I K N L R K K S P T A D G D G D A F I S D P V
 CATGAGAAAGAGTCAGAAGATCCACAGGGCACTCGACTCTGATGATGTGAGCTTGTAAAGTGTCTTGAATGAGTCTGACATCACA
 301 H E K R V R R I H R A L D S D D V E L V K L L L N E S D I T
 TTAGATGATGCCAATGCATTACACTATGCTGCTTCTTACTGTGATCTAAAGTTGTCTCAGAGACTATTAGATTGGCGCTGGCTAACTTA
 331 L D D A N A L H Y A A S Y C D S K V V S E L D L L A L A N L
 AATTGAAGAAAGCGGTGATACAGCACTTCCACTTGGCTGCTATGAGGAGAGAACCACTTATTATGTGCTCTCTTAACAAAGG
 361 N L K N S R G Y T A L H L A A M R R E P A I I M C L N K G
 GCAATGTATCACACTACGAGCTGATGGCAGGAGCGCAATTGGTATTGTGGAGGTTAACAAGATAAAAGACTACAATAACAAGATG
 391 A N V S Q L T A D G R S A I G I C R R L T R L K D Y N T K M
 GAGCAGGTCAAGATCAAAATAAGATAGGCTGTGATAGATATCTAGAGAGGAGATGCGAANATCTATGCGCGTGAAGATGCT
 421 E Q G Q E S N G D R L C I D I L E R E M M R N P M A V E D A
 GTCACCTCGCTTTATTGGCAGATGATCTTCACATGAAGCTTCTCTACCTGGAACACAGAGTGCATTTGCTAGATTGTCTTTCCTGT
 451 V T S P L L A D D L H M K L L Y L E N R V A F A R L F F P A
 GAAGCCAAAGTTCGCAATATGCACAAGCAGACACACAGAAGAAATTCGCGGTATAGTTGCAGCAAGTACTTGTGTGAAGTGAAGG
 481 E A K V A M Q I A Q A D T T E E F G G I V A A S T C G K L R
 GAGGTGCACTTAATGAGAGCGCAGTACACAAAAACAAAGACTCCGTTCAAGGTAGATGCACTGATGAAACAGTGGAGCTGGGCCGT
 511 E V D L N E T P V T Q N K R L R S R V D A L M K T V E L G R
 CGGTACTTCCCGAAGCTTCGCAAGTGTGAGCAAAATTCGTGAGGACGACCTGCCGACGGGCTGGACAGTTCTACTCCAGAGGGCG
 541 R Y F P N C S Q V L D K F L E D D L P D G F Y L Q R G
 ACCGCCGACGAGCAGAAGTGAAGAGGATGCGCTTCTGTAGCTGAAGGAGGACGTGCTGAAGGCTTTAGCAAGGACAAGCGGACAGC
 571 T A D E Q K V K R M R F C E L K E D V C L K A F S K D K A D S
 AGCATGTTCTCGGGCTGTTCTCATCTGCTGCTGCTGCCACCCAGAAATCCACCAAGAGGTGA

Figure. S1 Nucleic acid sequence and the coding amino acid sequence of *ShNPR1* gene. The red font was the cysteine site; the red box, green box and orange box sequences represented the BTB/POZ conservative domain, ankyrin repeats and NPR1-like C-terminal region, respectively. The purple sequence was the nuclear location signal, and * represented stop codon.